

INI-MEMO

D 100-B (REV. 9-70)

Nathan Law  
TO: U.S. Env. Prot. Agency  
215 Fremont St.  
S.F. (W3)

SUBJECT:

Exempted Aquifers  
Kern River Field (Alcuse)  
Kern Bluff (Alcuse)

DATE 9/14/83

Note: Attached are the two UIC aquifer exemptions that we discussed. Both aquifers contain fluids that exceed 10,000 ppm.

Regards,  
Bob

RETURN TO

SIGNED

ADDRESS

PHONE

GNED

ADDRESS

DATE

SEND PARTS 1 AND 3 INTACT — PART 3 WILL BE RETURNED WITH REPLY

## OFFICE MEMO

STD. 100 (REV. 11-75)

DATE

8/18/83

TO:

Bob Reid

ROOM NUMBER

FROM:

Dave Mitchell  
(District 4)

PHONE NUMBER

(805) 322-4031

SUBJECT:

UIC Aquifer Exemption Applications

Dear Mr. Reid,

Attached are two applications for aquifer exemptions in Kern County. I think they are self-explanatory but if you need any additional data or have any questions, please contact me.

Thanks,

Dave Mitchell

RECEIVED  
DIVISION OF AGRICULTURE  
SACRAMENTO

AUG 22 2 12 PM '83

APPLICATION FOR INJECTION ZONE EXEMPTION  
NON-HYDROCARBON PRODUCING ZONE - DISTRICT 4

1. Field Kern River
2. Zone Olcese
3. Depth to Top of Zone 2875' (drill depth)/ -2275'±(sub-sea)
4. Thickness 850'
5. Areal Extent entire field, fault-bounded on south
6. TDS of Zone 25,500 ppm
7. TDS of Injection Fluid no fluid ever injected
8. Are Injection Fluids Other Than Produced Water water softener effluent proposed
9. Date Injection Began no fluid ever injected
10. Miscellaneous Information none
11. Drinking Water Aquifer Declaration is NOT a Source
12. Depth Formation: 2875' (drill depth)/ -2275'± (sub-sea)  
Water Well: 970' (drill depth) / -370' (sub-sea)
13. Distance to Towns 3 miles east of Bakersfield
14. Land Ownership oilfield property
15. Alternate Water Source the Kern River
16. Unusual Geology major China Zone Fault at southern edge of field, Olcese Zone isolated from shallower and deeper aquifers by 400-800' thick clay/shale sequences
17. Formation TDS (see #6. above)
18. Yield of Water unknown - never tested

1 copy  
please  
Bob R.

APPLICATION FOR INJECTION ZONE EXEMPTION  
NON-HYDROCARBON PRODUCING ZONE - DISTRICT 4

1. Field Kern Bluff
2. Zone Olcese
3. Depth to Top of Zone 2354' (drill depth)/- 1575'± (sub-sea)
4. Thickness 1100'
5. Areal Extent entire field, fault-bounded on northeast
6. TDS of Zone 12,500 - 31,000 ppm (from 24 E-log calculations)
7. TDS of Injection Fluid no fluid ever injected
8. Are Injected Fluids Other Than Produced Water both SO<sub>2</sub> scrubber and produced water are proposed
9. Date Injection Began no fluid ever injected
10. Miscellaneous Information none
11. Drinking Water Aquifer Declaration is NOT a source
12. Depth Formation: 2354' (drill depth)/ -1575'± (sub-sea)  
Water Well: 405' (drill depth)/ 365' (above sea level)
13. Distance to Towns 5 miles east-northeast of Bakersfield
14. Land Ownership oilfield property
15. Alternate Water Source the Kern River
16. Unusual Geology numerous small faults throughout field, fault-bounded to northeast
17. Formation TDS (see #6. above)
18. Yield of Water unknown - never tested